

Facility Name: **McIntosh Combined Cycle Facility**

City: Rincon

County: Effingham

AIRS #: 04-13-103-00014

Application #: TV-577522

Date SIP Application Received: N/A

Date Title V Application Received: June 22, 2021

Permit No: 4911-103-0014-V-06-1

Program	Review Engineers	Review Managers
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TOXICS	n/a	n/a
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## Introduction

This narrative is being provided to assist the reader in understanding the content of the referenced SIP permit to construct and draft operating permit amendment. Complex issues and unusual items are explained in simpler terms and/or greater detail than is sometimes possible in the actual permit. This permit is being issued pursuant to: (1) Sections 391-3-1-.03(1) and 391-3-1-.03(10) of the Georgia Rules for Air Quality Control, (2) Part 70 of Chapter I of Title 40 of the Code of Federal Regulations, and (3) Title V of the Clean Air Act Amendments of 1990. The following narrative is designed to accompany the draft permit and is presented in the same general order as the permit. This narrative is intended only as an adjunct for the reviewer and has no legal standing. Any revisions made to the permit in response to comments received during the public comment period and EPA review process will be described in an addendum to this narrative.

## I. Facility Description

### A. Existing Permits

Table 1 below lists the current Title V permit, and all administrative amendments, minor and significant modifications to that permit, and 502(b)(10) attachments.

Table 1: Current Title V Permit and Amendments

Permit/Amendment Number	Date of Issuance	Description
4911-103-0014-V-06-0	November 10, 2020	Title V Renewal

### B. Regulatory Status

#### 1. PSD/NSR/RACT

The McIntosh Combined Cycle Facility (AFS No. 103-00014) and McIntosh Steam Electric Generating Plant (AFS No. 103-00003) comprise the same Title I and Title V site. The PSD major source threshold is 100 tons per year (tpy) because the site is one of the 28 listed source categories (as a *fossil fuel-fired steam electric plant of more than 250 MMBtu/hr heat input*). The site is major for PM, PM<sub>10</sub>, CO, NO<sub>x</sub>, SO<sub>2</sub>, and VOC. Best available control technology (BACT) determinations were performed for the facility in 2003 for the control of NO<sub>x</sub>, CO, SO<sub>2</sub>, PM/PM<sub>10</sub>, and VOC.

This modification does not include physical changes or changes in the method of operation of the facility; PSD/NSR is not applicable.

#### 2. Title V Major Source Status by Pollutant

Table 2: Title V Major Source Status

Pollutant	Is the Pollutant Emitted?	If emitted, what is the facility's Title V status for the Pollutant?		
		Major Source Status	Major Source Requesting SM Status	Non-Major Source Status
PM	Y	✓		
PM <sub>10</sub>	Y	✓		
PM <sub>2.5</sub>	Y	✓		
SO <sub>2</sub>	Y	✓		
VOC	Y	✓		
NO <sub>x</sub>	Y	✓		
CO	Y	✓		
TRS	N/A			
H <sub>2</sub> S	N/A			

## TITLE V SIGNIFICANT MODIFICATION (WITHOUT CONSTRUCTION) APPLICATION REVIEW

Individual HAP	Y	✓		
Total HAPs	Y	✓		

**II. Proposed Modification****A. Description of Modification**

This application No. TV-577522 was received on June 22, 2021. The application is requesting to renew the Acid Rain Permit for calendar years 2021 through 2025. The current Acid Rain Permit has been approved through calendar year 2023.

**B. Emissions Change****Table 3: Emissions Change Due to Modification**

Pollutant	Is the Pollutant Emitted?	Net Actual Emissions Increase (Decrease) (tpy)	Net Potential Emissions Increase (Decrease) (tpy)
PM	Y	0	0
PM <sub>10</sub>	Y	0	0
PM <sub>2.5</sub>	Y	0	0
SO <sub>2</sub>	Y	0	0
VOC	Y	0	0
NO <sub>x</sub>	Y	0	0
CO	Y	0	0
TRS	N/A	0	0
H <sub>2</sub> S	N/A	0	0
Individual HAP	Y	0	0
Total HAPs	Y	0	0

**C. PSD/NSR Applicability**

The PSD major source threshold is 100 tons per year (tpy) because the site is one of the 28 listed source categories (as a *fossil fuel-fired steam electric plant of more than 250 MMBtu/hr heat input*). The site is major for PM, PM<sub>10</sub>, CO, NO<sub>x</sub>, SO<sub>2</sub>, and VOC.

This modification does not include physical changes or changes in the method of operation of the facility; PSD/NSR is not applicable.

## **VIII. Specific Requirements**

### **A. Operational Flexibility**

There are no requests for operational flexibility associated with this modification.

### **B. Alternative Requirements**

There are no alternative requirements associated with this modification.

### **C. Insignificant Activities**

There are no insignificant activities associated with this modification.

### **D. Temporary Sources**

There are no temporary sources associated with this modification.

### **E. Short-Term Activities**

There are no short-term activities associated with this modification.

### **F. Compliance Schedule/Progress Reports**

No compliance issues were indicated.

### **G. Emissions Trading**

There are no emissions trading associated with this modification.

### **H. Acid Rain Requirements/CAIR/CSPAR**

Condition 7.9.7 updates the Acid Rain Permit for calendar years 2021 through 2025 for Emission Units CT10A thru CT11B.

### **I. Prevention of Accidental Releases**

This permit modification does not affect the applicability of Prevention of Accidental Releases requirements to this facility.

### **J. Stratospheric Ozone Protection Requirements**

This permit modification does not affect the applicability of Stratospheric Ozone Protection requirements to this facility.

K. Pollution Prevention

This permit modification does not affect the applicability of Pollution Prevention requirements to this facility.

L. Specific Conditions

There are no specific conditions associated with this permit modification.

**Addendum to Narrative**

The 30-day public review started on month day, year and ended on month day, year. Comments were/were not received by the Division.

//If comments were received, state the commenter, the date the comments were received in the above paragraph. All explanations of any changes should be addressed below.//